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BATTERY TERMINAL AND METHOD FOR ITS INSTALLATION ON A BATTERY CASE

ABSTRACT OF THE DISCLOSURE

A battery terminal for a battery case is formed with a circumerentially extending shoulder which engages the inner surface of the battery case when the terminal is installed in an aperture in the case by inserting the terminal in the aperture from the inside of the battery case. A retaining ring is then interference resistance welded to the terminal as the retaining ring is pressed into a seated position against the outer surface of the case. An o-ring seal on the shoulder engages the inner surface of the battery case and seals against leakage of the battery acid. High pressure deformation of the battery case and resulting creep are significantly reduced because the force that is used to press the retaining ring against the outer surface of the battery case is relatively low. Furthermore, the welded joint is almost as strong as the material that the terminal is made of and stronger than the plastic battery case.